

Title (en)

A METHOD FOR RECOVERY OF Nd₂Fe₁₄B GRAINS FROM BULK SINTERED Nd-Fe-B MAGNETS AND/OR MAGNET SCRAPS BY ELECTROCHEMICAL ETCHING

Title (de)

VERFAHREN ZUR RÜCKGEWINNUNG VON Nd₂Fe₁₄B-KÖRNERN AUS MASSEGESINTERTEN Nd-Fe-B-MAGNETEN UND/ODER MAGNETABFÄLLEN DURCH ELEKTROCHEMISCHES ÄTZEN

Title (fr)

PROCÉDÉ DE RÉCUPÉRATION DE GRAINS Nd₂Fe₁₄B À PARTIR D'AIMANTS Nd-Fe-B FRITTÉS EN VRAC ET/OU DE DÉCHETS D'AIMANTS PAR GRAVURE ÉLECTROCHIMIQUE

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Abstract (en)

The invention relates to a method for recovery of Nd₂Fe₁₄B grains from bulk sintered Nd-Fe-B magnets and/or magnet scraps. In this method the Nd-Fe-B magnets (1) and/or magnet scraps are anodically oxidized using a non-aqueous liquid electrolyte (5), said anodic oxidation releasing the Nd₂Fe₁₄B grains (6) in said Nd-Fe-B magnets (1) and/or magnet scraps. The released Nd₂Fe₁₄B grains (6) are collected during and/or after said anodic oxidation. The proposed method allows a more environmental friendly and cost-effective way for recycling EOL Nd-Fe-B magnets / Nd-Fe-B magnet scraps.

IPC 8 full level

C22B 7/00 (2006.01); **C22B 59/00** (2006.01); **C25C 5/00** (2006.01); **H01F 1/057** (2006.01)

CPC (source: CN EP US)

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